Salvador Lucas

List of Publications by Year
in descending order

101	1,082	516215 16	610482 24
papers	citations	h-index	g-index

111	111	111	172
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Operational termination of conditional term rewriting systems. Information Processing Letters, 2005, 95, 446-453.	0.4	71
2	Context-Sensitive Rewriting Strategies. Information and Computation, 2002, 178, 294-343.	0.5	55
3	Proving operational termination of membership equational programs. Higher-Order and Symbolic Computation, 2008, 21, 59-88.	0.3	50
4	Polynomials over the reals in proofs of termination : from theory to practice. RAIRO - Theoretical Informatics and Applications, 2005, 39, 547-586.	0.5	33
5	SAT Modulo Linear Arithmetic for Solving Polynomial Constraints. Journal of Automated Reasoning, 2012, 48, 107-131.	1.1	32
6	mu-term: A Tool for Proving Termination of Context-Sensitive Rewriting. Lecture Notes in Computer Science, 2004, , 200-209.	1.0	28
7	Termination of on-demand rewriting and termination of OBJ programs. , 2001, , .		27
8	Normal forms and normal theories in conditional rewriting. Journal of Logical and Algebraic Methods in Programming, 2016, 85, 67-97.	0.4	25
9	MTT: The Maude Termination Tool (System Description). Lecture Notes in Computer Science, 2008, , 313-319.	1.0	25
10	The Maude Formal Tool Environment. , 2007, , 173-178.		25
11	Context-Sensitive Rewriting Strategies. Information and Computation, 2002, 178, 294-343.	0.5	24
12	Proving termination of membership equational programs. , 2004, , .		24
13	Termination Modulo Combinations of Equational Theories. Lecture Notes in Computer Science, 2009, , 246-262.	1.0	24
14	Strongly sequential and inductively sequential term rewriting systems. Information Processing Letters, 1998, 67, 1-8.	0.4	23
15	Proving Termination Properties with mu-term. Lecture Notes in Computer Science, 2011, , 201-208.	1.0	22
16	Termination of Rewriting with Strategy Annotations. Lecture Notes in Computer Science, 2001, , 669-684.	1.0	21
17	Termination of context-sensitive rewriting by rewriting. Lecture Notes in Computer Science, 1996, , 122-133.	1.0	21
18	Solving Non-linear Polynomial Arithmetic via SAT Modulo Linear Arithmetic. Lecture Notes in Computer Science, 2009, , 294-305.	1.0	18

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19	Proving termination of context-sensitive rewriting by transformation. Information and Computation, 2006, 204, 1782-1846.	0.5	17
20	Proving Termination of Context-Sensitive Rewriting with MU-TERM. Electronic Notes in Theoretical Computer Science, 2007, 188, 105-115.	0.9	17
21	Recursive Path Orderings Can Be Context-Sensitive. Lecture Notes in Computer Science, 2002, , 314-331.	1.0	17
22	Specialization of functional logic programs based on needed narrowing. Theory and Practice of Logic Programming, 2005, 5, 273-303.	1.1	14
23	Operational Termination of Membership Equational Programs: the Order-Sorted Way. Electronic Notes in Theoretical Computer Science, 2009, 238, 207-225.	0.9	14
24	Automatic Synthesis of Logical Models for Order-Sorted First-Order Theories. Journal of Automated Reasoning, 2018, 60, 465-501.	1.1	14
25	Use of logical models for proving infeasibility in term rewriting. Information Processing Letters, 2018, 136, 90-95.	0.4	14
26	Termination of (Canonical) Context-Sensitive Rewriting. Lecture Notes in Computer Science, 2002, , 296-310.	1.0	14
27	Improving Context-Sensitive Dependency Pairs. Lecture Notes in Computer Science, 2008, , 636-651.	1.0	14
28	Simple termination of context-sensitive rewriting. , 2002, , .		14
29	Modular termination of context-sensitive rewriting. , 2002, , .		13
30	On the relative power of polynomials with real, rational, and integer coefficients in proofs of termination of rewriting. Applicable Algebra in Engineering, Communications and Computing, 2006, 17, 49-73.	0.3	13
31	Context-sensitive dependency pairs. Information and Computation, 2010, 208, 922-968.	0.5	13
32	Lazy Rewriting and Context-Sensitive Rewriting. Electronic Notes in Theoretical Computer Science, 2002, 64, 234-254.	0.9	12
33	Dependency pairs for proving termination properties of conditional term rewriting systems. Journal of Logical and Algebraic Methods in Programming, 2017, 86, 236-268.	0.4	12
34	Context-Sensitive Dependency Pairs. Lecture Notes in Computer Science, 2006, , 297-308.	1.0	12
35	Abstract Diagnosis of Functional Programs. Lecture Notes in Computer Science, 2003, , 1-16.	1.0	11
36	Polynomials for Proving Termination of Context-Sensitive Rewriting. Lecture Notes in Computer Science, 2004, , 318-332.	1.0	11

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37	Search Techniques for Rational Polynomial Orders. Lecture Notes in Computer Science, 2008, , 109-124.	1.0	11
38	Correct and Complete (Positive) Strategy Annotations for OBJ. Electronic Notes in Theoretical Computer Science, 2004, 71, 70-89.	0.9	10
39	Improving the Context-sensitive Dependency Graph. Electronic Notes in Theoretical Computer Science, 2007, 188, 91-103.	0.9	10
40	Methods for Proving Termination of Rewriting-based Programming Languages by Transformation. Electronic Notes in Theoretical Computer Science, 2009, 248, 93-113.	0.9	10
41	Transfinite Rewriting Semantics for Term Rewriting Systems. Lecture Notes in Computer Science, 2001, , 216-230.	1.0	10
42	Practical use of polynomials over the reals in proofs of termination. , 2007, , .		9
43	Formal Verification of Websites. Electronic Notes in Theoretical Computer Science, 2008, 200, 103-118.	0.9	9
44	Proving Termination in the Context-Sensitive Dependency Pair Framework. Lecture Notes in Computer Science, 2010, , 18-34.	1.0	9
45	Context-sensitive Rewriting. ACM Computing Surveys, 2021, 53, 1-36.	16.1	9
46	Rewriting-Based Navigation of Web Sites: Looking for Models and Logics. Electronic Notes in Theoretical Computer Science, 2006, 157, 79-85.	0.9	8
47	Order-sorted dependency pairs. , 2008, , .		8
48	The 2D Dependency Pair Framework for conditional rewrite systems. Part I: Definition and basic processors. Journal of Computer and System Sciences, 2018, 96, 74-106.	0.9	8
49	A Dependency Pair Framework for Aâ€‰â˜â€‰C-Termination. Lecture Notes in Computer Science, 2010, , 35-51.	1.0	8
50	Proving semantic properties as first-order satisfiability. Artificial Intelligence, 2019, 277, 103174.	3.9	7
51	Specialization of inductively sequential functional logic programs. , 1999, , .		7
52	Root-neededness and approximations of neededness. Information Processing Letters, 1998, 67, 245-254.	0.4	6
53	New Evaluation Commands for Maude Within Full Maude. Electronic Notes in Theoretical Computer Science, 2005, 117, 263-284.	0.9	6
54	Proving Operational Termination of Declarative Programs in General Logics. , 2014, , .		6

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55	Usable Rules for Context-Sensitive Rewrite Systems. Lecture Notes in Computer Science, 2008, , 126-141.	1.0	6
56	OnDemandOBJ. Electronic Notes in Theoretical Computer Science, 2003, 86, 1-27.	0.9	5
57	The origins of the halting problem. Journal of Logical and Algebraic Methods in Programming, 2021, 121, 100687.	0.4	5
58	Generalizing Newmanâ€™s Lemma for Left-Linear Rewrite Systems. Lecture Notes in Computer Science, 2006, , 66-80.	1.0	5
59	mu-term: Verify Termination Properties Automatically (System Description). Lecture Notes in Computer Science, 2020, , 436-447.	1.0	5
60	Automatically Proving and Disproving Feasibility Conditions. Lecture Notes in Computer Science, 2020, , 416-435.	1.0	5
61	Needed reductions with context-sensitive rewriting. Lecture Notes in Computer Science, 1997, , 129-143.	1.0	4
62	Demandness in Rewriting and Narrowing. Electronic Notes in Theoretical Computer Science, 2002, 76, 42-51.	0.9	4
63	On-demand Evaluation for Maude. Electronic Notes in Theoretical Computer Science, 2005, 124, 25-39.	0.9	4
64	Using Well-Founded Relations for Proving Operational Termination. Journal of Automated Reasoning, 2020, 64, 167-195.	1.1	4
65	The 2D Dependency Pair Framework for Conditional Rewrite Systemsâ€”Part II: Advanced Processors and Implementation Techniques. Journal of Automated Reasoning, 2020, 64, 1611-1662.	1.1	4
66	Applications and extensions of context-sensitive rewriting. Journal of Logical and Algebraic Methods in Programming, 2021, 121, 100680.	0.4	4
67	Models for Logics and Conditional Constraints in Automated Proofs of Termination. Lecture Notes in Computer Science, 2014, , 9-20.	1.0	4
68	Context-sensitive computations in confluent programs. Lecture Notes in Computer Science, 1996, , 408-422.	1.0	4
69	Localized Operational Termination in General Logics. Lecture Notes in Computer Science, 2015, , 91-114.	1.0	4
70	Strategies in Programming Languages Today. Electronic Notes in Theoretical Computer Science, 2005, 124, 113-118.	0.9	3
71	Using Context-Sensitive Rewriting for Proving Innermost Termination of Rewriting. Electronic Notes in Theoretical Computer Science, 2009, 248, 3-17.	0.9	3
72	On-demand strategy annotations revisited: An improved on-demand evaluation strategy. Theoretical Computer Science, 2010, 411, 504-541.	0.5	3

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73	Automatic Generation of Logical Models with AGES. Lecture Notes in Computer Science, 2019, , 287-299.	1.0	3
74	Specialization of inductively sequential functional logic programs. ACM SIGPLAN Notices, 1999, 34, 273-283.	0.2	3
75	Function Calls at Frozen Positions in Termination of Context-Sensitive Rewriting. Lecture Notes in Computer Science, 2015, , 311-330.	1.0	3
76	Analysis of Rewriting-Based Systems as First-Order Theories. Lecture Notes in Computer Science, 2018, , 180-197.	1.0	3
77	Transformations for efficient evaluations in functional programming. Lecture Notes in Computer Science, 1997, , 127-141.	1.0	2
78	Removing redundant arguments automatically. Theory and Practice of Logic Programming, 2007, 7, 3-35.	1.1	2
79	Termination of just/fair computations in term rewriting. Information and Computation, 2008, 206, 652-675.	0.5	2
80	Completeness of context-sensitive rewriting. Information Processing Letters, 2015, 115, 87-92.	0.4	2
81	Removing Redundant Arguments of Functions*. Lecture Notes in Computer Science, 2002, , 117-132.	1.0	2
82	Extending the 2D Dependency Pair Framework for Conditional Term Rewriting Systems. Lecture Notes in Computer Science, 2015, , 113-130.	1.0	2
83	Synthesis of models for order-sorted first-order theories using linear algebra and constraint solving. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 200, 32-47.	0.8	2
84	Termination of Fair Computations in Term Rewriting. Lecture Notes in Computer Science, 2005, , 184-198.	1.0	2
85	UPV-Curry: An Incremental Curry Interpreter. Lecture Notes in Computer Science, 1999, , 331-339.	1.0	2
86	Redundancy of Arguments Reduced to Induction. Electronic Notes in Theoretical Computer Science, 2002, 76, 20-41.	0.9	1
87	On-demand Evaluation by Program Transformation1 1Work partially supported by CICYT TIC2001-2705-C03-01 and MCYT grants HA2001-0059 and HU2001-0019.. Electronic Notes in Theoretical Computer Science, 2003, 86, 92-118.	0.9	1
88	Comparing CSP and SAT Solvers for Polynomial Constraints in Termination Provers. Electronic Notes in Theoretical Computer Science, 2008, 206, 75-90.	0.9	1
89	Automatic Proofs of Termination With Elementary Interpretations. Electronic Notes in Theoretical Computer Science, 2009, 258, 41-61.	0.9	1
90	Derivational Complexity and Context-Sensitive Rewriting. Journal of Automated Reasoning, 2021, 65, 1191.	1.1	1

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91	Use of Logical Models for Proving Operational Termination in General Logics. Lecture Notes in Computer Science, 2016, , 26-46.	1.0	1
92	From Matrix Interpretations over the Rationals to Matrix Interpretations over the Naturals. Lecture Notes in Computer Science, 2010, , 116-131.	1.0	1
93	Proving Program Properties as First-Order Satisfiability. Lecture Notes in Computer Science, 2019, , 3-21.	1.0	1
94	Proving and disproving confluence of context-sensitive rewriting. Journal of Logical and Algebraic Methods in Programming, 2022, 126, 100749.	0.4	1
95	A new proposal of concurrent process calculus. Lecture Notes in Computer Science, 1996, , 385-392.	1.0	0
96	Abstract Correction of First-Order Functional Programs. Electronic Notes in Theoretical Computer Science, 2003, 86, 105-122.	0.9	0
97	Strong and NV-sequentiality of constructor systems. Information Processing Letters, 2004, 89, 191-201.	0.4	0
98	Reduction strategies in rewriting and programming. Journal of Symbolic Computation, 2005, 40, 745-747.	0.5	0
99	Web Services and Interoperability for the Maude Termination Tool. Electronic Notes in Theoretical Computer Science, 2009, 248, 83-92.	0.9	0
100	Using Representation Theorems for Proving Polynomials Non-negative. Lecture Notes in Computer Science, 2014, , 21-33.	1.0	0
101	Termination of canonical context-sensitive rewriting and productivity of rewrite systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 200, 18-31.	0.8	0